



Florida Department of Enviro

32212-000
19.02.00.0010

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

September 20, 1991

RARP

r

Jacksonville
FL 32212-5000
Jacksonville, Florida 32212-5000

Subject: U.S. Naval Air Station-Jacksonville
FLD 170 024 412
HF16-152611
Duval County - Hazardous Waste

Dear Captain Cramer:

Enclosed is Permit Number HF16-152611 dated September 20, 1991 to conduct closure and post-closure activities at the regulated units at your facility, issued pursuant to Section 403.722, Florida Statutes and Florida Administrative Code 17-730.260. Acceptance of the permit constitutes notice and agreement that the Department may periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement actions for violation of the conditions and requirements thereof.

Any party to this permit has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice accompanied by the applicable filing fees with the appropriate District Court of Appeals.

The Notice of Appeals must be filed within thirty (30) days from the date this permit is issued.

Sincerely,

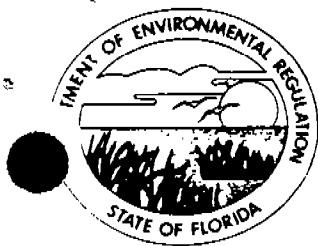
John M. Ruddell

John M. Ruddell, Director
Division of Waste Management

JR/MRO
Enclosure

cc w/enclosure:

St. John's River Water Management District
Jim Scarbrough, EPA/Region IV Clay County Commissioners
Kent Williams, EPA/Region IV Honorable Ron Raymond, Mayor of Orange Park
Ernie Frey, DER/Jacksonville Duval County Commissioners
Honorable Ed Austin, Jacksonville City Hall
James Manning, Bio Environmental Services, Jacksonville



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

PERMITTEE:

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

Attention:

Commanding Officer
Naval Air Station - Jacksonville

I.D. Number: FL6 170 024 412

Permit/Certification Number: HF16-152611

Date of Issue: September 20, 1991

Expiration Date: September 20, 1996

County: Duval

Latitude/Longitude: 30°13'30"N/81°41'00"W

Section/Township/Range: 23/T3S/R27E

Project: Closure and Post-Closure of
Three Hazardous Waste Surface
Impoundments.

This permit is issued under the provision of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-3, 17-4, 17-25, 17-532, 17-550 and 17-730. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

To close and post-close three surface impoundments, (Domestic Waste Sludge Drying Beds, Industrial Waste Sludge Drying Beds, and Polishing Pond), which contained hazardous waste generated from NAS-Jacksonville. The sludge generated from the wastewater treatment met the definition of hazardous waste designated as hazardous waste codes FO01 through FO06 and FO19. These units are no longer in service.

The Industrial Waste Sludge Drying Beds are comprised of four beds used to dewater wastewater treatment sludges from electroplating operations (FO06 hazardous waste). Constructed in 1980, each drying bed is approximately 15 feet by 18 feet. The drying beds are enclosed with retaining walls constructed of 8 inch thick concrete reinforced with Number 5 reinforcing steel on 12 inch spacings. The bottom of the beds is unlined and consists of a 12 inch sand layer, with an underlying 10 inch gravel layer. The beds are underdrained, and the liquids were returned to the industrial wastewater treatment plant. Approximately 8250 gallons of dried sludges were excavated from the surface impoundment annually.

The Domestic Waste Sludge Drying Beds and the Polishing Pond were used for the treatment and storage of sludges resultant from the treatment of FO06 and FO19 rinsewater from electroplating operations, FO01 through FO05 paint stripping and parts cleaning operations, in addition to sludge from the aerobic digester of the domestic wastewater treatment plant. The Domestic Sludge Drying Beds were constructed in 1970 and consist of five (5) beds. Each bed is approximately 50 feet by 50 feet with a three-foot high wall constructed of 8-inch concrete blocks and reinforced with wire tire ties. The bottom of the beds is unlined and is underlain by seven inches of sand, three inches of fine gravel and six inches to twelve inches of course gravel layers.

The Polishing Pond was built in 1970 to provide additional settling for 2.36 million gallons per day of combined domestic and industrial wastewater treated effluent. The Polishing Pond is unlined and has a surface area of 3.8 acres and an average depth of 3.5 feet.

The facility is located at U.S. Highway 17 and Yorktown Avenue, Jacksonville, Florida.

The application named in this permit consists of the following documents which are considered a part thereof:

1. Hazardous Waste Facility Closure/Post-Closure Permit Application dated August 8, 1988.
2. Hazardous Waste Facility Closure/Post-Closure Permit Application (Revision 1) dated June 2, 1989.
3. Federal Facilities Agreement Between United States Environmental Protection Agency, Florida Department of Environmental Regulation, for the State of Florida and United States Department of the Navy Jacksonville, Jacksonville, Florida dated October 23, 1990.
4. Hazardous Waste Facility Closure/Post-Closure Permit Application (Revision 2) dated November 21, 1990.
5. Hazardous Waste Facility Closure/Post-Closure Permit Application (Revision 3) dated February 26, 1991.

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times access to the premises where the permitted activity is located or conducted to:
- (a) Have access to and copying any records that must be kept under conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
- (a) A description of and cause of noncompliance; and
 - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 17-3.051, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with Rules 17-4.120 and 17-730.300 F.A.C., as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof is required to be kept at the work site of the permitted activity.
13. This permit also constitutes:
 - (a) Determination of Best Available Control Technology (BACT)
 - (b) Determination of Prevention of Significant Deterioration (PSD)
 - (c) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
 - (d) Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
 - (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by this permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

(c) Records of monitoring information shall include:

1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

16. The following conditions shall also apply to a hazardous waste facility permit:

(a) The following reports shall be submitted to the Department:

1. Manifest discrepancy report. If a significant discrepancy in a manifest is discovered, the permittee shall attempt to rectify the discrepancy. If not resolved within 15 days after the waste is received, the permittee shall immediately submit a letter report, including a copy of the manifest, to the Department.
2. Unmanifested waste report. The permittee shall submit an unmanifested waste report to the Department within 15 days of receipt of unmanifested waste.
3. Biennial report. An biennial report covering facility activities during the previous calendar year shall be submitted to the Department by March 1, of each even numbered year pursuant to Chapter 17-730, F.A.C.

(b) Notification of any noncompliance which may endanger health or the environment including the release of any hazardous waste that may endanger public drinking water supplies, or the occurrence of a fire or explosion from the facility which could threaten the environment or human health outside the facility, shall be reported verbally to the Department within 24 hours, and a written report shall be provided within 5 days. The verbal report within 24 hours shall contain the name, address, I.D. number and telephone number of the facility, its owner or operator, the name and quantity of materials involved, the extent of any injuries, an assessment of actual or potential hazards, and the estimated quantity and disposition of recovered material. The written submission shall contain:

1. A description of cause of the noncompliance.

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

2. If not corrected, the expected time of correction and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.
- (c) Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule shall be submitted no later than 14 days after each schedule date.
- (d) All reports or information required by the Department by a hazardous waste permittee shall be signed by a person authorized to sign a permit application.

SPECIFIC CONDITIONS:

PART I - STANDARD REQUIREMENTS:

1. Two submittals in response to these permit conditions shall be submitted to:

Federal Facilities Coordinator
Bureau of Waste Cleanup
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

One submittal in response to these permit conditions shall be submitted to:

District Manager
Department of Environmental Regulation
Northeast District Office
7825 Baymeadows Way
Suite 200B
Jacksonville, Florida 32256-7577

One submittal in response to these permit conditions shall be submitted to:

Mr. James H. Scarbrough, P.E. Chief
Waste Management Division
U.S. Environmental Protection Agency
Region IV
345 Courtland Street
Atlanta, Georgia 30365

2. All documents submitted pursuant to the conditions of this permit shall be accompanied by a cover letter stating the name and date of the document submitted, the number(s) of the Specific Condition(s) affected, and the permit number and project name of the permit involved. All submittals modifying the approved Closure and/or Post-closure Plan shall be certified by the owner and operator and signed, sealed and certified by a professional engineer registered in the State of Florida except when exempted in accordance with 17-4.050 and 17-730.220(5), FAC.

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

3. The Department may modify, revoke, reissue, or terminate for cause this permit in accordance with the provisions of 17-730.290, FAC. The filing of a request for a permit modification, revocation, reissuance, or termination, or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition. The permittee may submit any subsequent revisions to the Department for departmental approval. Should these revisions constitute a modification to the permit, the permittee shall meet the requirements of 17-730.290, FAC.
4. The permittee shall follow the emergency procedures specified in 40 CFR Part 264.56 and approved in Attachment A-2 of the application. The permittee shall give proper notification if an emergency situation arises and within fifteen (15) calendar days must submit to the Department a written report which includes all information required in 40 CFR Part 264.56(j).
5. The Department of Environmental Regulations's 24-hour emergency telephone number is (904) 488-1320. During normal business hours, the District Office may be contacted at (904) 448-4320. The Bureau of Waste Cleanup may be contacted at (904) 488-0190.
6. The permittee shall inspect the facility emergency and safety equipment in accordance with 40 CFR Part 264.15. Changes to the schedule must be approved in writing by the Department. The schedule must be maintained as part of the operating record at the facility.
7. Facility personnel must successfully complete the approved training program in accordance with 40 CFR Part 264.16. Verification of this training must be kept with the personnel training records and maintained on site. Personnel shall not work unsupervised until the appropriate training has been completed.
8. The contingency plan must be amended and distributed to the appropriate agencies if any criteria in 40 CFR Part 264.54 are met. Amendments to the plan must be approved in writing by the Department.
9. Prior to 135 calendar days before the expiration of this permit, the permittee shall submit a complete application for renewal of the permit on forms and in a manner prescribed by the Department, unless post-closure care has been completed and certified in accordance with Specific Condition IV.6 and accepted by the Department [17-730.300(1), FAC].

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

10. The permittee shall keep a written operating record at the facility which includes:

- a. The results of the waste analyses.
- b. A summary report and details of incidents that require implementation of the contingency plan.
- c. Manifests
- d. The results of inspections.
- e. Closure plan and closure cost estimates.
- f. Biennial reports.
- g. Monitoring, testing or analytical data where required by 40 CFR Part 264 Subpart F and 40 CFR Part 264.226.

These records must be maintained at the facility until completion and certification of closure [40 CFR Parts 264.73 and .74].

11. The permittee shall comply with all the applicable portions of 40 CFR Parts 260 through 268 and those conditions required by 40 CFR Parts 270.30 and 270.31 (17-730.280, FAC).
12. The permittee shall revise "Part I - General" of the Application for a Hazardous Waste Facility Permit (17-730.900(2), FAC) within thirty (30) calendar days of any changes in the Part I. The revised "Part I - General" must be submitted to the Department within thirty (30) calendar days of such changes.

PART II - STANDARD CLOSURE REQUIREMENTS:

1. The permittee shall close the hazardous waste units in a manner that minimizes or eliminates, to the extent necessary to protect human health and the environment, post-closure escape of hazardous waste, hazardous waste constituents, leachate, contaminated run-off, or hazardous waste decomposition products to the groundwater, surface waters, or to the atmosphere (40 CFR Part 264.111).

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

2. In accordance with the requirements of 40 CFR Part 264.112(a), the permittee shall keep a copy of the Closure Plan and all revisions to the plan until closure is completed, certified in accordance with 40 CFR Part 264.115, and accepted by the Department.
3. The permittee must complete clean-up and sampling activities in accordance with the Federal Facilities Agreement (FFA) dated October 23, 1990. Any changes in the time allowed for closure of the units after approval shall require prior Department approval (40 CFR Part 264.113).
4. The permittee shall decontaminate or dispose of all facility equipment, structures, and residues resulting from the closure activities as required by 40 CFR Part 264.114.
5. Within sixty (60) calendar days of the completion of physical closure, the permittee shall submit to the Department, by certified mail or hand delivery, a report signed by the permittee and an independent, Professional Engineer registered in the State of Florida, except when exempted, in accordance with 17-4.050 and 17-730.220(5), FAC stating that the surface impoundments have been closed in compliance with the Closure Plan, and the specific conditions of this permit (40 CFR Part 264.115).
6. The permittee shall maintain a daily log of closure activities on site throughout the closure period. Closure activities shall be reported to the Department on a quarterly basis, in accordance with the Federal Facilities Agreement dated October 23, 1990.
7. All sampling and analytical procedures shall be done in accordance with the Basic Sampling and Analysis Plan (BSAP). The permittee shall revise the Basic Sampling and Analysis Plan whenever there is a change in sampling and/or analytical procedures, including personnel. The revised plan or revisions must be submitted to the Department for approval within thirty (30) calendar days of such changes.
8. The permittee shall provide opportunities for site inspections by the Department by informing the District Office and Bureau of Waste Cleanup (Specific Conditions I.1 or I.5) in writing or verbally at least seven (7) calendar days in advance of any physical closure activity (e.g. soil sampling, pipe removal, soil removal, cap installation, decontamination of equipment, etc.).

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

9. If at any time the permittee determines that actions undertaken as part of closure or associated monitoring programs no longer satisfy the requirements set forth in this permit, the permittee shall, within seven (7) calendar days, notify the Department of this finding. If the Department determines that a major modification is required, the permittee shall, within sixty (60) calendar days, submit an application for a permit modification in accordance with 17-730.290 FAC, to make any appropriate changes to the permit.
10. All amendments, revisions, and modifications to any plan required by this permit shall be submitted to the Department for review and permit modification as necessary.

PART III - CLOSURE CONDITIONS FOR SURFACE IMPOUNDMENTS:

1. The surface impoundments shall be closed as approved in Section D of the application and 40 CFR Part 264 Subparts G and K.
2. The Department shall be notified seven (7) calendar days prior to taking soil samples.
3. The permittee shall maintain a daily log of closure activities on site throughout the closure period. Closure activities shall be reported to the Department on a quarterly basis, in accordance with the Federal Facilities Agreement dated October 23, 1990.

PART IV - POST-CLOSURE CONDITIONS FOR SURFACE IMPOUNDMENTS:

1. Upon completion of closure of the surface impoundments, the permittee shall:
 - a. Begin post-closure care and continue for thirty years after that date in accordance with 40 CFR Part 264.117(a).
 - b. Maintain compliance with security provisions of 40 CFR Part 264.14, throughout the post-closure care period, to prevent the unauthorized entry of persons or livestock onto the facility [40 CFR Part 264.117(b)].
 - c. Never disturb the final cover or any other components of the associated structures unless previous written Department approval has been provided pursuant to 40 CFR Part 264.117(c).

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

- d. Ensure that all post-closure care activities be in accordance with the Post-closure Plan as specified in 40 CFR Part 264.118 [40 CFR Part 264.117(d)].
2. The permittee shall keep a copy of the Post-closure Plan and all revisions to the plan at the facility until post-closure care is completed and certified in accordance with 40 CFR Part 264.120 [40 CFR Part 264.118(c)] and accepted by the Department.
3. Any proposed amendments to the Post-closure Plan shall be submitted to the Department for review and approval [40 CFR Part 264.118(d)].
4. Within sixty (60) days upon receipt of Department acceptance of the certification of closure, the permittee shall comply with the requirements of 40 CFR Part 264.119(a) (Notice to local land authority).
5. The permittee shall comply with the requirements of 40 CFR Part 264.119(b) (Notice in deed to property). The notice shall be submitted to the Department within sixty (60) days of receipt of the departmental acceptance of the certification of closure of the hazardous waste surface impoundments.
6. Within sixty (60) days from the completion of the established post-closure care period, the permittee shall submit to the Department by certified mail or hand delivery, a letter signed by the permittee and an independent professional engineer, registered in the State of Florida, except when exempted, in accordance with 17-4.050 and 17-730.220(5), FAC, stating that the post-closure care for the hazardous waste disposal unit was performed in accordance with the specifications in the approved Post-closure Plan [40 CFR Part 264.120].
7. The permittee shall comply with all applicable portions of 40 CFR Parts 260 through 268 until released from post-closure care requirements.

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

PART V - GROUNDWATER MONITORING PROGRAM:

1. The Waste Management Areas shall be imaginary lines circumscribing the Sludge Drying Beds and Polishing pond designated on Attachment A [40 CFR Part 264.95(b)(1) and (2)]. The Point of Compliance shall be the northern and eastern boundaries of the Waste Management Areas [40 CFR Part 264.95(a)]. If future groundwater monitoring indicates a change in groundwater flow direction within the surficial aquifer, this permit may be modified to require the installation of additional point-of-compliance monitoring wells.
2. The background water quality monitoring well for both Waste Management Areas shall be Well NAS4-9 (Attachment B).
3. The point-of-compliance wells for the combined Sludge Drying Beds shall be NAS4-5, 41-3, 41-4, and 41-6 (Attachment B).
4. The point-of-compliance wells for the Polishing Pond shall be 42-5, 42-6, 42-7 and 42-8 (Attachment B).
5. All groundwater sampling shall be conducted in accordance with the Basic Sampling and Analysis Plan noted in Section M.11 of the application.
6. The permittee shall sample the background well, all point-of-compliance wells and assessment well clusters 4-20 and 4-21 (Attachment B) in January and July of each year throughout the Compliance Periods specified in Specific Condition 14 of this part. Each of these wells must be sampled for the constituents listed in Specific Conditions 8 and 9 of this part.
7. The permittee shall submit to the Department groundwater monitoring reports that provide analytical data and information requested in Specific Conditions 6, 10, 13, 14 and 16 of this part. The groundwater monitoring data from each January sampling event shall be submitted no later than April 30 and data from each July sampling event shall be submitted no later than October 31. If for any reason the permittee is unable to submit analyses within the specified time, the permittee must comply with General Condition 8.

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

B. The Groundwater Protection Standard (40 CFR Part 264.92) shall be:

<u>Parameters</u>	<u>Groundwater Protection Standard</u>
tetrachloroethylene	background
methylene chloride	background
trichloroethylene	background
1,1,2-trichloroethane	background
toluene	background
carbon tetrachloride	background
chloroform	background
methyl ethyl ketone	background
ethylene dibromide	background
benzene	background
1,2-dichlorobenzene	background
chlorobenzene	background
vinyl chloride	background
total cresols	background
crystelic acid	background
total phenols	background
total xylene	background
carbon disulfide	background
trichlorofluoromethane	background
pyridine	background
2-nitropropane	background
nitrobenzene	background
1,2-dichloropropane	background
1,2,3-trichloropropane	background
arsenic	0.05 mg/l
barium	1.0 mg/l
cadmium	0.01 mg/l
total chromium	0.05 mg/l
lead	0.05 mg/l
mercury	0.002 mg/l
selenium	0.01 mg/l
silver	0.05 mg/l
nickel	background
complexed cyanide	background

mg/l = milligrams per liter; background is defined in Specific Condition 10 of this part.

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

9. The following constituents shall be sampled on a semi-annual basis:

pH	1,1,1-trichloroethane
specific conductance	isobutanol
turbidity	1,1,2-trichloro-1,2,2-trifluoroethane
total coliform	2-ethoxyethanol
nitrate (as N)	copper
radium 226	fluoride
radium 228	iron
gross alpha	manganese
gross beta	sodium
chloride	vanadium
1,1-dichloroethane	zinc
1,2-dichloroethane	sulfate

10. Background concentrations shall be established through sampling at the upgradient background well each time groundwater is sampled at the Point of Compliance. The background concentration limit shall be the mean of the four most recent background samples of the hazardous constituent [40 CFR Part 264.99(c)(1)].
11. The permittee may apply for Alternate Concentration Limits (ACLs) in accordance with 40 CFR Part 264.94. In accordance with 40 CFR Part 264.94(b), the Department shall establish Alternate Concentration Limits (ACLs) upon approval of the ACL demonstration.
12. The Compliance Period (40 CFR Part 264.96) for the Sludge Drying Beds began February 25, 1988 and the Compliance Period shall be 26 years long. The Compliance Period for the Polishing Pond began April 13, 1990 and the Compliance Period shall be 26 years. If the permittee is engaged in a corrective action program at the end of the Compliance Period, the Compliance Period is extended until the permittee can demonstrate that the Groundwater Protection Standard (40 CFR Part 264.92) specified in Specific Condition 8 of this part has not been exceeded for a period of three consecutive years.

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

13. Groundwater elevations and flow rates shall be determined each time wells are sampled [40 CFR Part 264.97(f)]. In addition, groundwater elevations for all monitoring wells must be measured on a quarterly basis in January, April, July and October of each year. All groundwater elevations must be measured within the same eight hour period and must be measured prior to sampling. The data for the January event shall be submitted no later than April 30 of each year; the data for the April event shall be submitted no later than July 31 of each year; the data for the July event shall be submitted no later than October 31 of each year and the data for the October event shall be submitted no later than January 31 of the following year. In addition, total depth of all wells must be determined by physical measurement each time a well is sampled to determine whether siltation of any well is occurring, and to calculate the casing volume to be purged prior to sampling. If infilling or siltation of wells is determined, the discovery and any corrective action taken shall be reported to the Department within fifteen (15) days.
14. The permittee shall notify the Department in writing if any damage to the groundwater monitoring wells occurs. Damage subject to this notification will be that requiring repair, not maintenance. Notification describing corrective action taken shall be given after damage has been corrected, or within fifteen (15) days from the date the damage was detected, whichever occurs first. Description of corrective action taken shall be submitted in writing to the Department, in any case, within fifteen (15) days of completion date.
15. The permittee shall provide the Department with opportunities to observe groundwater sampling and split samples by providing the District Office and Bureau of Waste Cleanup (Specific Conditions I.1 and I.5) written or verbal notification at least seven (7) days prior to each groundwater sampling event.
16. If wells are to be abandoned, they shall be abandoned in accordance with 17-532.500(4), FAC.

PART VI - POST-CLOSURE ASSESSMENT:

1. Additional assessment of contaminated groundwater must continue in conjunction with the CERCLA Remedial Investigation/Feasibility Study.

PART VII- POST-CLOSURE CORRECTIVE ACTION:

1. The permittee shall submit, to the Department, a detailed corrective action plan to meet the requirements of 40 CFR Part 264.100 and CERCLA requirements in accordance with the Federal Facilities Agreement dated October 23, 1990.
2. Within thirty (30) days of Department approval, the permittee shall implement the Corrective Action Plan.

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

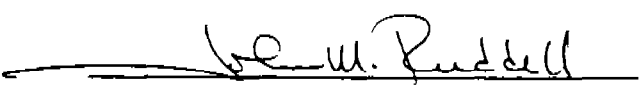
I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

3. After the Corrective Action Plan is implemented, the permittee shall submit to the Department in March and September of each year a report on the effectiveness of the corrective action program [40 CFR Part 264.100(g)].
4. Corrective action measures may be terminated upon the Department's approval, when the hazardous constituents listed in Specific Condition V.8 have been below the concentrations limits established in the Groundwater Protection Standards for a period of three consecutive years [40 CFR Part 264.100(e)(2)].
5. The permittee must continue corrective action measures during the Compliance Period to the extent necessary to ensure that the Groundwater Protection Standard is not exceeded. If the permittee is conducting corrective action at the end of the Compliance Period, the permittee shall continue that corrective action until groundwater monitoring data demonstrate that the Groundwater Protection Standard has not been exceeded for a period of three consecutive years [40 CFR Parts 264.96(c) and .100(f)].
6. If corrective action is terminated prior to the termination of the post-closure care period, this permit shall be modified to address at a minimum, semi-annual groundwater monitoring throughout the remainder of the post-closure care period.
7. The corrective action program set forth in 40 CFR Part 264.100 shall extend beyond the facility property boundary [17-730.180(5)(b), FAC].

Issued

9/20/91

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


John M. Ruddell, Director
Division of Waste Management

Filing and Acknowledgement
Filed on this date, pursuant
to Section 120.52, Florida
Statutes, with the designated
Clerk, receipt of which is acknowledged.


CLERK

9/20/91
DATE

This is to certify that this Notice of Permit was mailed before the close of business on September 20, 1991.

PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

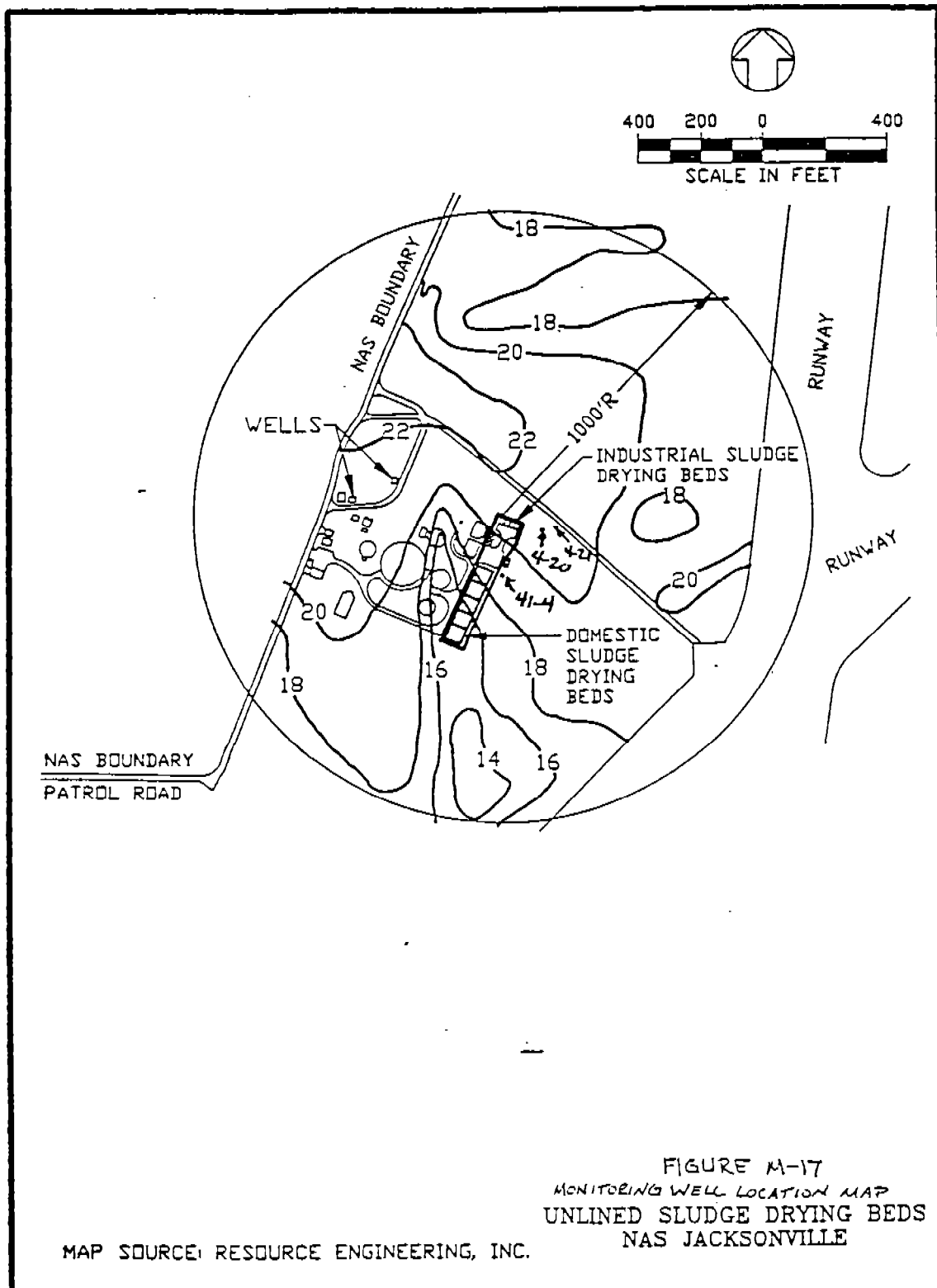
I.D. Number: FL6 170 024 412

Permit/Certification: HF16-152611

Date of Issue: September 20, 1991

Expiration Date: September 20, 1996

**ATTACHMENT A
WASTE MANAGEMENT AREAS**



PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

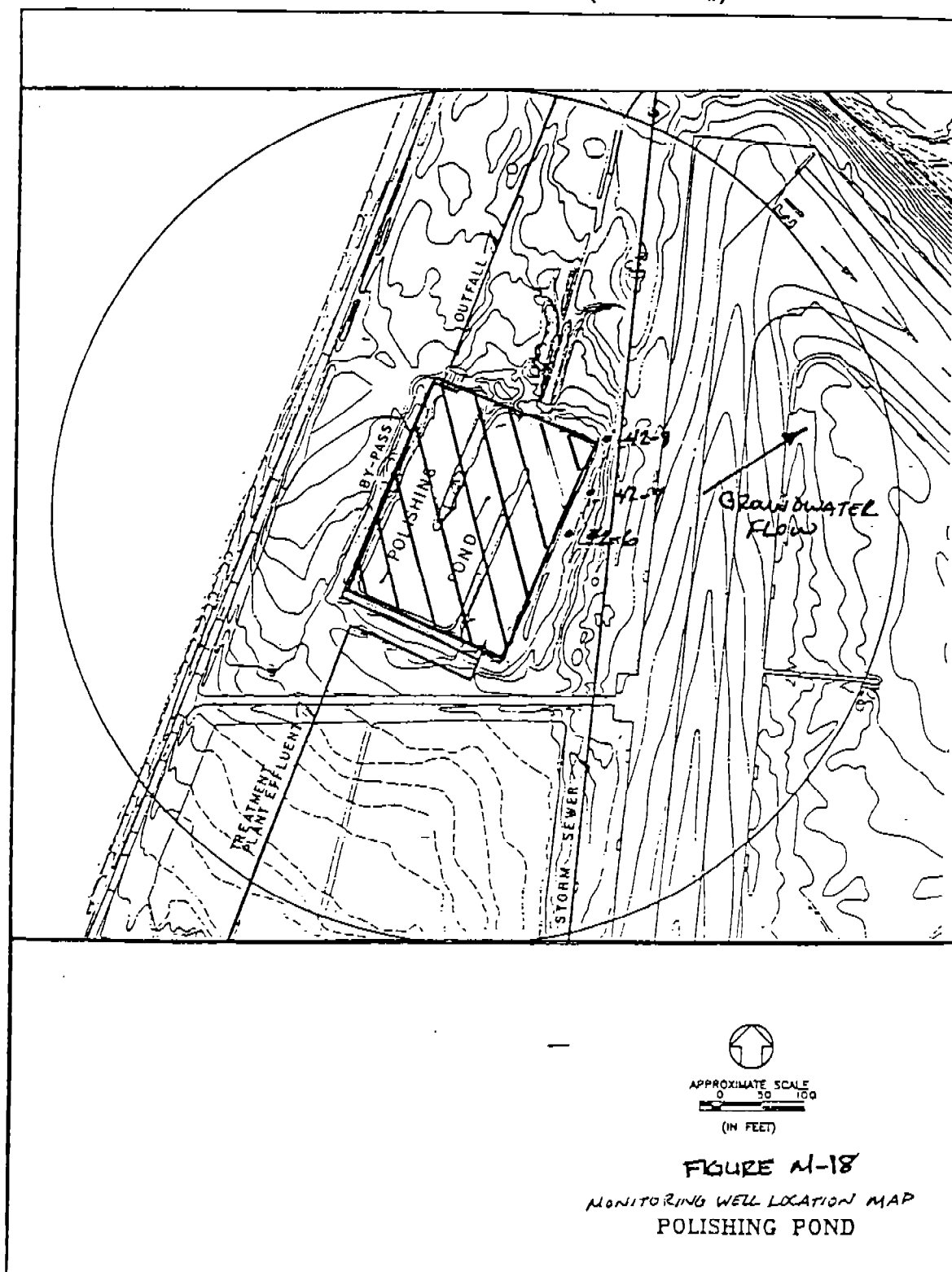
I.D. Number: FL6 170 024 412

Permit/Certification: HF16-152611

Date of Issue: September 20, 1991

Expiration Date: September 20, 1996

ATTACHMENT A
WASTE MANAGEMENT AREAS (continued)



PERMITTEE

U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

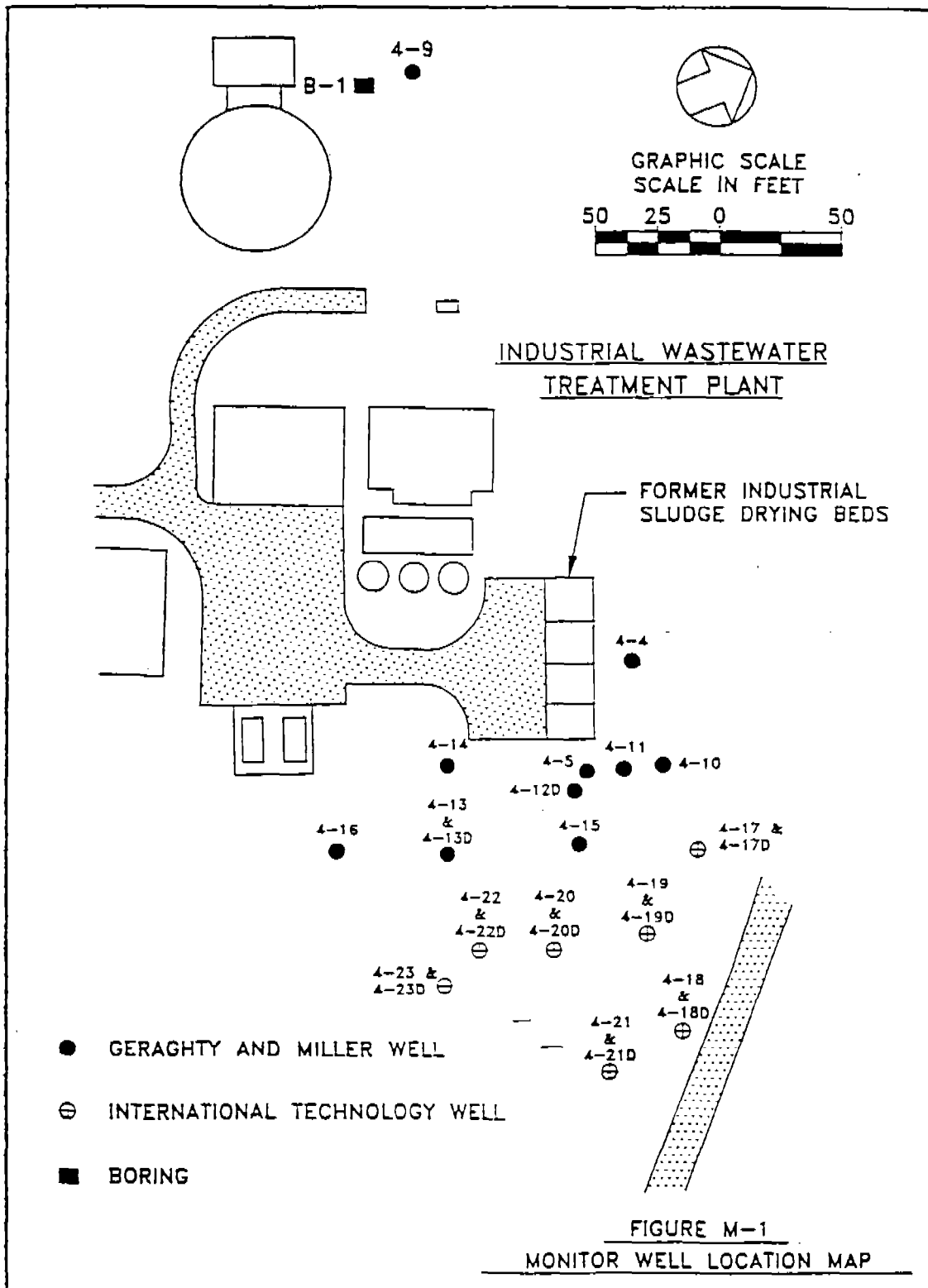
I.D. Number: FL6 170 024 412

Permit/Certification: HF16-152611

Date of Issue: September 20, 1991

Expiration Date: September 20, 1996

ATTACHMENT B
GROUNDWATER MONITORING WELLS



PERMITTEE
U.S. Naval Air Station-Jacksonville
Post Office Box 5, Code 184
Jacksonville, Florida 32212-5000

I.D. Number: FL6 170 024 412
Permit/Certification: HF16-152611
Date of Issue: September 20, 1991
Expiration Date: September 20, 1996

ATTACHMENT B
GROUNDWATER MONITORING WELLS (continued)

